MAR - 3 2011



## 510(k) Summary

In accordance with Title 21 of the Code of Federal Regulations, Part 807, and in particular 21 CFR §807.92, the following summary of information is provided:

# A. Submitted by:

Elias Ketchum

Regulatory Affairs Associate

NuVasive, Incorporated

7475 Lusk Blvd.

San Diego, California 92121

Telephone: (858) 320-4588

Fax: (858) 320-4688

Date Prepared: December 22, 2010

#### B. Device Name

Trade or Proprietary Name: NuVasive® Traverse Plate System

Common or Usual Name: Spin

Spinal Implants

Classification Name:

Spinal Intervertebral Body Fixation orthosis

Device Class:

Class II

Classification:

§888.3060

Product Code:

KWQ

#### C. Predicate Devices

The subject *Traverse Plate System* is substantially equivalent to the following predicate devices currently distributed commercially in the U.S.:

- K082070 NuVasive Traverse Plate System
- K070273 NuVasive Lateral Plate System
- K102514 NuVasive SpheRx II MAS Deformity Spinal System

## D. Device Description

The *Traverse Plate System* consists of a variety of plates, screws, bolts, and locking nuts. Implant components can be rigidly locked into a variety of different configurations to suit the individual pathology and anatomical conditions of the patient. This 510(k) is for a line extension to the *Traverse Plate System* for an additional plate configuration and bolt size.

#### E. Intended Use

The NuVasive Traverse Plate System is indicated for use as an adjunct to fusion via a lateral or anterolateral surgical approach above the bifurcation of the great vessels in the treatment of thoracic and thoracolumbar (T1-L5) spine instability or via the anterior surgical approach, below the bifurcation of the great vessels, in the treatment of lumbar and lumbosacral (L1-S1) spine instability as a result of:

- 1. Fracture (including dislocation and subluxation)
- 2. Tumor



- 3. Degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies)
- 4. Scoliosis
- 5. Kyphosis
- 6. Lordosis
- 7. Spinal stenosis
- 8. Failed previous spine surgery

## F. Technological Characteristics

As was established in this submission, the subject *Traverse Plate System* is substantially equivalent to other predicate devices cleared by the FDA for commercial distribution in the United States. The subject device was shown to be substantially equivalent and have the same technological characteristics to its predicate devices through comparison in areas including design, intended use, material composition, function, and range of sizes.

### G. Performance Data

Nonclinical testing was performed to demonstrate that the subject *Traverse Plate System* is substantially equivalent to other predicate devices. The following testing was performed:

- Static and dynamic compression testing per ASTM F1717
- Static torsion testing per ASTM F1717

The results of these studies showed that the subject *Traverse Plate System* meets or exceeds the performance of the predicate device, and the device was therefore found to be substantially equivalent.

## H. Conclusions

Based on the indications for use, technological characteristics, performance testing, and comparison to predicate devices, the subject *Traverse Plate System* has been shown to be substantially equivalent to legally marketed predicate devices, and safe and effective for its intended use.



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room –WO66-G609 Silver Spring, MD 20993-0002

MAR - 3 2011

NuVasive, Inc. % Mr. Elias Ketchum Regulatory Affairs Associate 7475 Lusk Boulevard San Diego, California 92121

Re: K103750

Trade/Device Name: NuVasive® Traverse Plate System

Regulation Number: 21 CFR 888.3060

Regulation Name: Spinal intervertebral body fixation orthosis

Regulatory Class: Class II Product Code: KWQ Dated: February 01, 2011 Received: February 02, 2011

Dear Mr. Ketchum:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act

or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <a href="http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm">http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm</a> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <a href="http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm">http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm</a>.

Sincerely yours,

Mark N. Melkerson

Director

 Division of Surgical, Orthopedic And Restorative Devices
 Office of Device Evaluation
 Center for Devices and
 Radiological Health

Enclosure

# Indications for Use

510(k) Number (if known):
Device Name: NuVasive® Traverse Plate System Indications For Use:
The NuVasive Traverse Plate System is indicated for use as an adjunct to fusion via a lateral or anterolateral surgical approach above the bifurcation of the great vessels in the treatment of thoracic and thoracolumbar (T1-L5) spine instability or via the anterior surgical approach, below the bifurcation of the great vessels, in the treatment of lumbar and lumbosacral (L1-S1) spine instability as a result of:
<ol> <li>Fracture (including dislocation and subluxation)</li> <li>Tumor</li> <li>Degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies)</li> <li>Scoliosis</li> <li>Kyphosis</li> <li>Lordosis</li> <li>Spinal stenosis</li> <li>Failed previous spine surgery</li> </ol>
Prescription Use X AND/OR Over-The-Counter Use
(Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
(Division Sign-Oti) Division of Surgical, Orthopedic, and Restorative Devices
510(k) Number <u>K103750</u>